

Polymers

QUESTION: Outline fully the chemical reaction between monomers to form the following polymers

name of polymer	chemical reaction
polythene	
polypropene	

1) Polypropene has many uses that are related to its properties. Describe TWO uses of polypropene and link these uses to named physical and chemical properties of polypropene.

2) Ethene is used to make the polymer **polyethene**. Polyethene has many different uses, for example plastic bags. Some uses of polyethene rely on its toughness. Discuss the process of the polymerisation of ethene into polyethene. In your answer, you should:

- draw diagrams to show the chemical structure of ethene and polyethene
- explain why polyethene is tough by referring to its chemical structure
- fully explain the chemical reaction that occurs between ethene molecules to form polyethene.

3) Ethene is a useful chemical. It is used to make many useful products such as polymers. What is a polymer?

Explain how ethene molecules join together to form polyethene. Include in your answer the conditions required for this reaction to occur.